

Attendees: danielle, ken, mary, phil, kathy, Natalie
 1/11/22 Crown LCD Tech

Feature	Threats	Data Sources
Bull Trout	habitat degradation (ie. Logging)	*AB - Alberta Human Footprint; Cumulative effects https://your.alberta.ca/22184/widgets/91480/documents/64637 *BC - cumulative effects framework (logging, mining, new draft of this)
	Invasive Species	*AB - FWMIS; EddMaps (AB invasive species council uses this) *BC - there is an equivalent there, but is a pain in the butt - not sure what it's called
	Climate Change (water temps, floods)	*MT - Theobald Riparian Climate Corridors *Crown - Leslie Jones (current stream temp and future stream temp) North America - fairly coarse rasters, but would cover whole region (Danielle) - Ecoregional climate refugia: https://adaptwest.databasin.org/ *Phil will look at Hi5 climate modeling
	Connectivity	*AB - AEP Barriers Database, Stream connectivity indicator data layer (AB): https://geodiscover.alberta.ca/geoportal/rest/metadata/item/7025fe90840a4680b4011b7100c21644/html (inputs could be useful too - would be a meeting with moderlers) - prediction for the quality of culverts (Danielle); FSI - https://www.alberta.ca/fsi-metrics-and-mapping.aspx *BC - Aquarius?

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Elk	Habitat loss (ranching/farming; fences)	*Canada - Annual Crop Inventory *AB - ABMI human footprint (might capture more than the annual crop inventory) Dale Paten - movement data, Crowsnest pass - core habitat areas
	CWD	*MT - FWP layer; *USGS - North America - https://www.usgs.gov/centers/nwhc/science/expanding-distribution-chronic-wasting-disease
	Connectivity (fencing)	
Mule Deer	Connectivity	
	CWD	https://www.usgs.gov/centers/nwhc/science/expanding-distribution-chronic-wasting-disease
	vehicle collisions	*Crown Roads layer *AB - collects data through an app - on openwarehouse portal; Crowsnest pass paper data from transportation has been digitized, but that's it; AB key wildlife zone is based largely on ungulates (we are currently using that dataset)
	Habitat loss (ranching/farming; fences)	
Forest	Industrial use	*AB - Alberta Eastern Slopes Land Use and Zoning (livingston and porcupine? Might be some useful zones in here), Alberta Human Footprint *BC - Cummulative effects framework; Mining layers (kathy could provide access)
	Severe Wildfire	*Crown-wide fire severity - Adam for Hi5 WG

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	Invasive Species/ forest pests	*not aware of any layers that map this for CA *US - USDA has datasets *CMP - old 2010 pest dataset
	Climate Change	
Grizzly Bear	Habitat degradation (human wildlife conflict, land conversion, traffic, railroads)	*AB - motorized density limits (this is where "zones" come into place) - this isn't road density, but roads that are actively driven on - only exists in livingston porcupine - road density (not necessarily the vehicle collision, but correlation between density and population decline - poaching -.6 as the threshold)
	Connectivity	
Lynx	Habitat destruction	
	Climate Change (snowpack)	*Crown-wide - this layer exists, Danielle has it, natalie probably also has it *Kevin McCelvy and John squire
	wildfire	*burn severity for the Crown
	increased trapping	*not sure how this would be mapped.
	loss of prey	*AB - ABMI has snowshoe hare models- https://abmi.ca/home/data-analytics/biobrowser-home/species-profile?tsn=180112 - can get coefficients (ie. Soil type and human footprint) and apply the model elsewhere *MT - MT natural heritage program; Scott Mills - work on snowshoe hare?

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Riparian	Development	<p>*AB - ABMI human footprint?, Cumulative effects of land uses and conservation priorities in Alberta's southern East Slopes watershed (https://your.alberta.ca/22184/widgets/91480/documents/64637)</p> <p>*Continental US - ICLUS - another theobald prodcut - maps current and future development</p>
	Climate Change (drought and floods)	<p>*MT - Theobald Riparian Climate Cooridors</p> <p>*Crown - Leslie Jones (current stream temp and future stream temp)</p> <p>*North America - fairly coarse rasters, but would cover whole region (Danielle) - Ecoregional climate refugia</p> <p>*Phil will look at Hi5 climate modeling</p>
	River damming	<p>*MT - this layer exists -Phil knows</p> <p>*AB - stream connectivity layer (Danielle) - https://geodiscover.alberta.ca/geoportal/rest/metadata/item/7025fe90840a4680b4011b7100c21644/html</p>
	Water withdrawal	<p>*AB - Danielle will check with water quality folks, cummulative effects of ag (AB chapter of the wildlife society - not sure where data is, but have pdf)</p>
Wetlands	Climate change	
	Drought	<p>*we're not sure at this time.</p>
	industrial development (mining and forestry)	<p>*AB - FWMIS, ACTWS (Alberta Chapter of the Wildlife Society)</p>

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Wolverine	Climate change (decline in alpine habitat)	*McClevy paper - climate prediction across the Crown - https://www.perc.org/wp-content/uploads/2016/04/rmrs_2011_mckelvey_k001.pdf *AB - Ecoregional Refugia - alpine habitat that will be considered alpine habitat in the future
	trapping	*Northern alberta might have digitized trapping data - if summarized, would be done by trapping units (Tony Clevanger would know)
	recreation	*Crown-wide - Hi5 recreation layer
	loss of habitat (human disturbance)	
Westslope	Invasive species	*AB - genetic data on hybridization (labels streams in classes on how pure the genetics are)
	Water withdrawal	*AB - there is water quantity data that does exist that could be shared, but would be tedious
	fragmentation	*Stream connectivity indicator data layer (AB): https://geodiscover.alberta.ca/geoportal/rest/metadata/item/7025fe90840a4680b4011b7100c21644/html ; FSI: https://www.alberta.ca/fsi-metrics-and-mapping.aspx
	habitat degradation (sediment from roads, human development)	*USFS - GRAIP model *AB - in some of AB, they have the READI model - models sediment run off from roads - Livingstone Porcupine - wouldn't be entire Crown

Climate Change (stream temp)?